Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2	US-6403830-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/24 06:20
L3	1	("6403830").URPN.	USPAT	OR	ON	2005/03/24 07:46
L4	1	"5132453".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:48
L5	1	"5132453".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:49
L6	1	"5684008".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:49
L7	1	"5830917".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:49
L8	1	"5854251".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:49
L9	1	"5889056".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:50
L10	1	"5919787".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:50
L11	1	"5945408".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:50
L12	1	"5981511".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:51
L13	1	"5994391".PN.	USPAT; USOCR	OR	ON	2005/03/24 06:51
L14	438	562/553.ccls.	USPAT	OR	ON	2005/03/24 07:46
L15	193	562/554.ccls.	USPAT	OR	ON	2005/03/24 07:46
L16	185	562/557.ccls.	USPAT	OR	ON	2005/03/24 07:47
L17	780	l14 or l15 or l16	USPAT	OR	ON	2005/03/24 07:47
L18	68576	ion adj exchange	USPAT	OR	ON	2005/03/24 07:55
L19	105	l17 and l18	USPAT	OR	ON	2005/03/24 07:48
L20	188300	membrane	USPAT	OR	ON	2005/03/24 07:48
L21	31	l19 and l20	USPAT	OR	ON	2005/03/24 09:46
L22	3900	ion adj exchange adj membrane	USPAT	OR	ON	2005/03/24 07:55
L23	4	l19 and l22	USPAT	OR	ON	2005/03/24 10:51
L24	0	"20020019563"	USPAT	OR	ON	2005/03/24 09:47
L25	2	("20020019563").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/24 10:31

L26	0	("dowexsameflask").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/24 10:25
L27	486	dowex same flask	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/24 10:31
L28	4	l17 and l27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/24 10:26
L29	11047	stir same flask	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/24 10:31
L30	1	l25 and l29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/24 10:32
L31	1	"4,818,409".pn.	USPAT	OR	ON	2005/03/24 10:51

	Type	L #	Hits	Search Text	DBs
1	BRS	L2	2	US-6403830-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT
2	BRS	L3	1	("6403830").URPN.	USPAT
3	BRS	L4	1	"5132453".PN.	USPAT; USOCR
4	BRS	L5	1	"5132453".PN.	USPAT; USOCR
5	BRS	L6	1	"5684008".PN.	USPAT; USOCR
6	BRS	L7	1	"5830917".PN.	USPAT; USOCR
7	BRS	L8	1	"5854251".PN.	USPAT; USOCR
8	BRS	L9	1	"5889056".PN.	USPAT; USOCR
9	BRS	L10	1	"5919787".PN.	USPAT; USOCR
10	BRS	L11	1	"5945408".PN.	USPAT; USOCR
11	BRS	L12	1	"5981511".PN.	USPAT; USOCR
12	BRS	L13	1	"5994391".PN.	USPAT; USOCR
13	BRS	L14	438	562/553.ccls.	USPAT
14	BRS	L15	193	562/554.ccls.	USPAT

	Time Stamp	Comments	Error Definition	Err ors
1	2005/03/24 06:20			
2	2005/03/24 07:46			
3	2005/03/24 06:48			
4	2005/03/24 06:49			
5	2005/03/24 06:49			
6	2005/03/24 06:49			
7	2005/03/24 06:49			
8	2005/03/24 06:50			
9	2005/03/24 06:50			
10	2005/03/24 06:50			
11	2005/03/24 06:51			
12	2005/03/24 06:51			
13	2005/03/24 07:46			
14	2005/03/24 07:46			

	Type	L #	Hits	Search Text	DBs
15	BRS	L16	185	562/557.ccls.	USPAT
16	BRS	L17	780	l14 or l15 or l16	USPAT
17	BRS	L18	68576	ion adj exchange	USPAT
18	BRS	L19	105	l17 and l18	USPAT
19	BRS	L20	188300	membrane	USPAT
20	BRS	L21	31	l19 and l20	USPAT
21	BRS	L22	3900	ion adj exchange adj membrane	USPAT
22	BRS	L23	4	l19 and l22	USPAT
23	BRS	L24	0	"20020019563"	USPAT
24	IS&R	L25	2	("20020019563").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT
25	IS&R	L26	0	("dowexsameflask").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT
26	BRS	L27	486	dowex same flask	US-PGPUB; USPAT; EPO; JPO; DERWENT

	Time Stamp	Comments	Error Definition	Errors
15	2005/03/24 07:47			
16	2005/03/24 07:47			
17	2005/03/24 07:55			
18	2005/03/24 07:48			
19	2005/03/24 07:48			
20	2005/03/24 09:46			
21	2005/03/24 07:55			
22	2005/03/24 10:51			
23	2005/03/24 09:47			
24	2005/03/24 10:31			
25	2005/03/24 10:25			
26	2005/03/24 10:31			

	Type	L #	Hits	Search Text	DBs
27	BRS	L28	4	117 and 127	US-PGPUB; USPAT; EPO; JPO; DERWENT
28	BRS	L29	11047	stir same flask	US-PGPUB; USPAT; EPO; JPO; DERWENT
29	BRS	L30	1	125 and 129	US-PGPUB; USPAT; EPO; JPO; DERWENT
30	BRS	L31	1	"4,818,409".pn.	USPAT

	Time Stamp	Comments	Error Definition	Err ors
27	2005/03/24 10:26			
28	2005/03/24 10:31			
29	2005/03/24 10:32			
30	2005/03/24 10:51			

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * *   Welcome to STN International   * * * * * * * * *.* *

NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
NEWS 2   "Ask CAS" for self-help around the clock
NEWS 3   SEP 01   New pricing for the Save Answers for SciFinder Wizard within
                     STN Express with Discover!
NEWS 4   OCT 28   KOREAPAT now available on STN
NEWS 5   NOV 30   PHAR reloaded with additional data
NEWS 6   DEC 01   LISA now available on STN
NEWS 7   DEC 09   12 databases to be removed from STN on December 31, 2004
NEWS 8   DEC 15   MEDLINE update schedule for December 2004
NEWS 9   DEC 17   ELCOM reloaded; updating to resume; current-awareness
                     alerts (SDIs) affected
NEWS 10 DEC 17   COMPUAB reloaded; updating to resume; current-awareness
                     alerts (SDIs) affected
NEWS 11 DEC 17   SOLIDSTATE reloaded; updating to resume; current-awareness
                     alerts (SDIs) affected
NEWS 12 DEC 17   CERAB reloaded; updating to resume; current-awareness
                     alerts (SDIs) affected
NEWS 13 DEC 17   THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS 14 DEC 30   EPFULL: New patent full text database to be available on STN
NEWS 15 DEC 30   CAPLUS - PATENT COVERAGE EXPANDED
NEWS 16 JAN 03   No connect-hour charges in EPFULL during January and
                     February 2005
NEWS 17 FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                     (ROSPATENT) added to list of core patent offices covered
NEWS 18 FEB 10   STN Patent Forums to be held in March 2005
NEWS 19 FEB 16   STN User Update to be held in conjunction with the 229th ACS
                     National Meeting on March 13, 2005
NEWS 20 FEB 28   PATDPAFULL - New display fields provide for legal status
                     data from INPADOC
NEWS 21 FEB 28   BABS - Current-awareness alerts (SDIs) available
NEWS 22 FEB 28   MEDLINE/LMEDLINE reloaded
NEWS 23 MAR 02   GBFULL: New full-text patent database on STN
NEWS 24 MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 25 MAR 03   MEDLINE file segment of TOXCENTER reloaded
NEWS 26 MAR 22   KOREAPAT now updated monthly; patent information enhanced
NEWS 27 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 28 MAR 22   PATDPASPC - New patent database available
NEWS 29 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags

NEWS EXPRESS   JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
                MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS INTER   General Internet Information
NEWS LOGIN   Welcome Banner and News Items
NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
NEWS WWW   CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

   * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:18:09 ON 24 MAR 2005

=> file caplus

COST IN U.S. DOLLARS		SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		0.21	0.21

FILE 'CAPLUS' ENTERED AT 07:18:20 ON 24 MAR 2005

FILE COVERS 1907 - 24 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 23 Mar 2005 (20050323/ED)

   This file contains CAS Registry Numbers for easy and accurate
   substance identification.

=> amino acid
        1017155 AMINO
             42 AMINOS
        1017172 AMINO
                (AMINO OR AMINOS)
        3954050 ACID
        1469442 ACIDS
        4430324 ACID
                (ACID OR ACIDS)
L1   643222 AMINO ACID
                (AMINO(W)ACID)

=> ion exchange
        1090737 ION
         684401 IONS
        1448919 ION
                (ION OR IONS)
         529300 EXCHANGE
          15945 EXCHANGES
         536829 EXCHANGE
                (EXCHANGE OR EXCHANGES)
L2   130062 ION EXCHANGE
                (ION(W)EXCHANGE)

```
=> 11(1)12
L3          7588 L1(L)L2

=> membrane
        655850 MEMBRANE
        293853 MEMBRANES
L4        738000 MEMBRANE
                   (MEMBRANE OR MEMBRANES)

=> 13(1)14
L5           428 L3(L)L4

=> hydrochloride
        140893 HYDROCHLORIDE
          9290 HYDROCHLORIDES
L6        145818 HYDROCHLORIDE
                   (HYDROCHLORIDE OR HYDROCHLORIDES)

=> 14 and 16
L7          3525 L4 AND L6

=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY       SESSION
FULL ESTIMATED COST                                  14.49        14.70


FILE 'REGISTRY' ENTERED AT 07:22:15 ON 24 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    23 MAR 2005   HIGHEST RN 847137-45-5
DICTIONARY FILE UPDATES:   23 MAR 2005   HIGHEST RN 847137-45-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.


**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from  *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> e 2-(((1-iminoethyl)amino)ethyl)-2-methyl-cysteine/cn
E1           1     2-(((1-HYDROXYCYCLOHEXYL)METHYL)AMINO)-1,8-DIMETHYL-7-(PHENY
                    LMETHYL)PURIN-6-ONE/CN
E2           1     2-(((1-HYDROXYCYCLOHEXYL)METHYL)AMINO)-1-METHYL-7-(PHENYLMET
                    HYL)PURIN-6-ONE/CN
E3           0 --> 2-(((1-IMINOETHYL)AMINO)ETHYL)-2-METHYL-CYSTEINE/CN
E4           1     2-(((1-METHYL-4-(N-NAPHTH-1-YLCARBAMOYL)PIPERAZIN-2-YL)METHY
```

		L)AMINO)-4-(BENZIMIDAZOL-1-YL)PYRIMIDINE/CN
E5	1	2-(((1-METHYLCYCLOPROPYL)CARBONYL)AMINO)-5-(2,6-DICHLOROBENZYLOXY)PYRAZINE/CN
E6	1	2-(((1-METHYLETHYL)THIO)METHYL)PHENOL/CN
E7	1	2-(((1-METHYLINDOL-3-YL)CARBONYL)METHYL)ISOQUINOLINIUM CHLORIDE/CN
E8	1	2-(((1-METHYLINDOL-3-YL)CARBONYL)METHYL)ISOQUINOLINIUM IODIDE/CN
E9	1	2-(((1-METHYLINDOL-3-YL)CARBONYL)METHYL)ISOQUINOLINIUM PERCHLORATE/CN
E10	1	2-(((1-PROPYLIMIDAZOL-5-YL)METHYL)THIO)BENZIMIDAZOL-5-AMINE/CN
E11	1	2-(((1-TERT-BUTOXYCARBONYLPIPERIDIN-4-YL)(5,6,7,8-TETRAHYDROQUINOLIN-8-YL)AMINO)METHYL)BENZIMIDAZOLE-1-CARBOXYLIC ACID TERT-BUTYL ESTER/CN
E12	1	2-(((1-TERT-BUTYLOXYCARBONYLPIPERIDIN-4-YL)THIO)METHYL)-5-PHENYLPENTANOIC ACID/CN

```
=> logoff hold
```

```
COST IN U.S. DOLLARS                         SINCE FILE      TOTAL
                                                ENTRY       SESSION
FULL ESTIMATED COST                              1.72        16.42
```

```
  SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:24:24 ON 24 MAR 2005

Connecting via Winsock to STN




Welcome to STN International!   Enter x:x

·LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:28:27 ON 24 MAR 2005
FILE 'REGISTRY' ENTERED AT 07:28:27 ON 24 MAR 2005
COPYRIGHT (C) 2005 American Chemical Society (ACS)
```

```
COST IN U.S. DOLLARS                         SINCE FILE      TOTAL
                                                ENTRY       SESSION
FULL ESTIMATED COST                              1.72        16.42
```

```
=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10797350\10797350 cysteine cmpd.str
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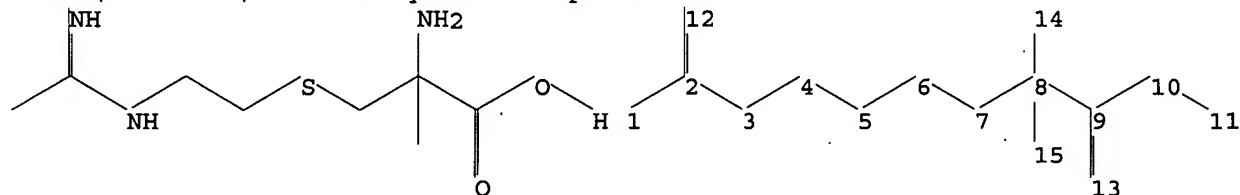


```
chain nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15
chain bonds :
1-2  2-3  2-12  3-4  4-5  5-6  6-7  7-8  8-9  8-14  8-15  9-10  9-13  10-11
exact/norm bonds :
2-3  2-12  3-4  5-6  6-7  8-14
exact bonds :
```

1-2 4-5 7-8 8-9 8-15 10-11
normalized bonds :
9-10 9-13

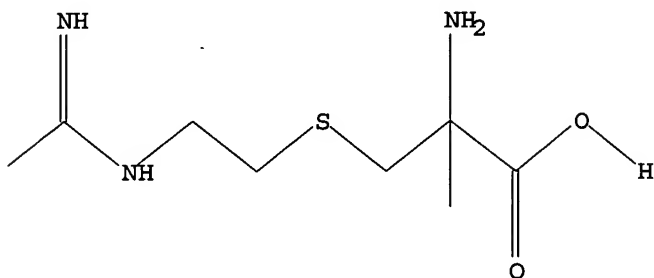Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L8   STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8   STR

Structure attributes must be viewed using STN Express query preparation.

=> search l8 sss sam
SAMPLE SEARCH INITIATED 07:28:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   13 TO ITERATE

100.0% PROCESSED   13 ITERATIONS   10 ANSWERS
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 44 TO   476
PROJECTED ANSWERS: 11 TO   389

L9   10 SEA SSS SAM L8

=> d scan

L9   10 ANSWERS   REGISTRY   COPYRIGHT 2005 ACS on STN
IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,
      (2S,3S)-2,3-dihydroxybutanedioate (1:1) (9CI)
MF   C8 H17 N3 O2 S . C4 H6 O6

      CM   1

Absolute stereochemistry.

CM   2

Absolute stereochemistry.

$$HO_2C \overset{S}{-} \overset{\overset{\displaystyle OH}{|}}{C} \overset{S}{-} CH \overset{S}{-} CO_2H$$
OH
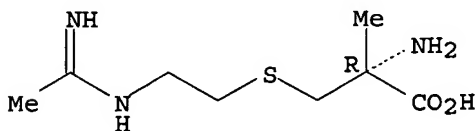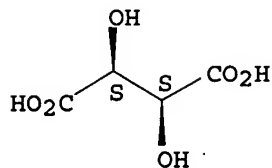
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L9   10 ANSWERS   REGISTRY   COPYRIGHT 2005 ACS on STN
IN   Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,
       bis(trifluoroacetate) (9CI)
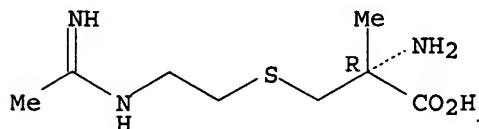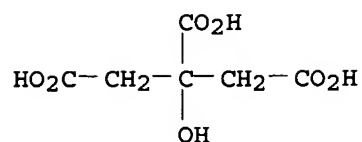MF   C8 H17 N3 O2 S . 2 C2 H F3 O2

CM   1
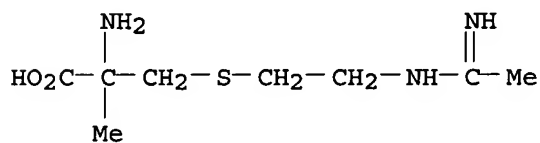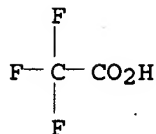
$$HO_2C - \overset{\overset{\displaystyle NH_2}{|}}{\underset{\underset{\displaystyle Me}{|}}{C}} - CH_2 - S - CH_2 - CH_2 - NH - \overset{\overset{\displaystyle NH}{||}}{C} - Me$$

CM   2

$$F - \overset{\overset{\displaystyle F}{|}}{\underset{\underset{\displaystyle F}{|}}{C}} - CO_2H$$

L9   10 ANSWERS   REGISTRY   COPYRIGHT 2005 ACS on STN
IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,
       2-hydroxy-1,2,3-propanetricarboxylate (1:1) (9CI)
MF   C8 H17 N3 O2 S . C6 H8 O7

CM   1

Absolute stereochemistry.

CM   2

$$HO_2C-CH_2-\underset{\underset{OH}{|}}{\overset{\overset{CO_2H}{|}}{C}}-CH_2-CO_2H$$

IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-, compd. with
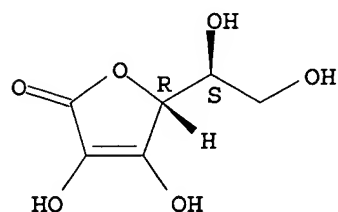   L-ascorbic acid (1:1) (9CI)
MF   C8 H17 N3 O2 S . C6 H8 O6

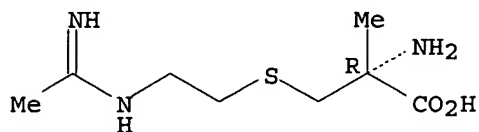   CM   1

Absolute stereochemistry.
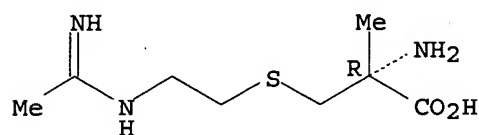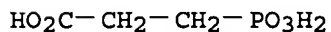

      CM   2

Absolute stereochemistry.

IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,
      mono(3-phosphonopropanoate) (9CI)
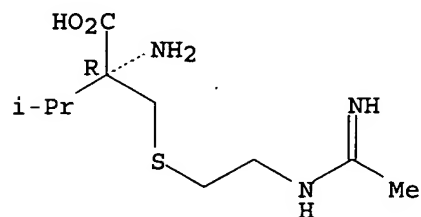MF   C8 H17 N3 O2 S . C3 H7 O5 P

      CM   1

Absolute stereochemistry.

      CM   2

$$HO_2C-CH_2-CH_2-PO_3H_2$$

IN   D-Isovaline, 2'-[[2-[(1-iminoethyl)amino]ethyl]thio]-3-methyl-,
      dihydrochloride (9CI)
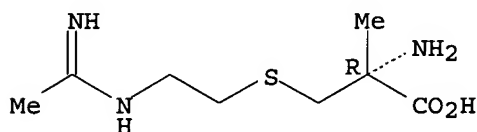MF   C10 H21 N3 O2 S . 2 Cl H

Absolute stereochemistry.

HO2C

R NH2

i-Pr

S

NH

N
H

Me

●2 HCl

IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-,
      (2R)-hydroxybutanedioate (20:11) (9CI)
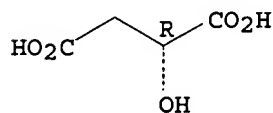MF   C8 H17 N3 O2 S . 11/20 C4 H6 O5

      CM   1

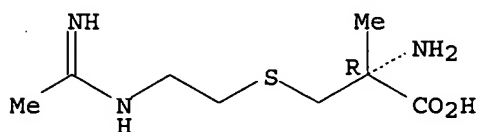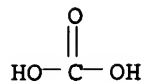Absolute stereochemistry.

NH   Me

Me   N   S   R NH2
      H   CO2H

      CM   2

Absolute stereochemistry.

          R   CO2H
HO2C

          OH

IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-, carbonate (1:1)
      (9CI)
MF   C8 H17 N3 O2 S . C H2 O3

      CM   1

Absolute stereochemistry.

NH   Me

Me   N   S   R NH2
      H   CO2H

```
        CM    2
```

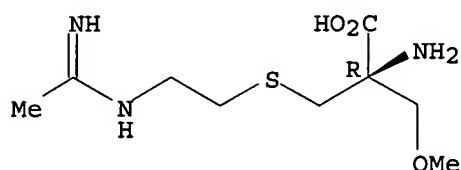$$\underset{HO}{} \overset{O}{\underset{\parallel}{C}} \underset{}{OH}$$

HO—C—OH

L9   10 ANSWERS   REGISTRY COPYRIGHT 2005 ACS on STN
IN   D-Serine, 2-[[[2-[(1-iminoethyl)amino]ethyl]thio]methyl]-O-methyl- (9CI)
MF   C9 H19 N3 O3 S
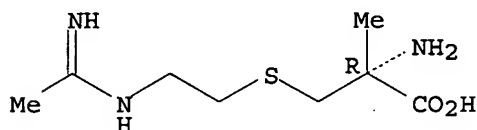CI   COM

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9   10 ANSWERS   REGISTRY COPYRIGHT 2005 ACS on STN
IN   L-Cysteine, S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-, monohydrochloride
      mono[(2S)-2-hydroxypropanoate] (9CI)
MF   C8 H17 N3 O2 S . C3 H6 O3 . Cl H
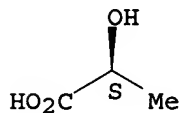
        CM   1

Absolute stereochemistry.

        CM   2

Absolute stereochemistry. Rotation (+).

ALL ANSWERS HAVE BEEN SCANNED

=> search l8 sss full
FULL SEARCH INITIATED 07:30:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   184 TO ITERATE

```
L10            166 SEA SSS FUL L8

=> file caplus
COST. IN U.S. DOLLARS                       SINCE FILE        TOTAL
                                              ENTRY          SESSION
FULL ESTIMATED COST                          164.34          179.04
```

```
=> l10
L11            15 L10

=> d his

      (FILE 'HOME' ENTERED AT 07:18:09 ON 24 MAR 2005)

      FILE 'CAPLUS' ENTERED AT 07:18:20 ON 24 MAR 2005
L1      643222 AMINO ACID
L2      130062 ION EXCHANGE
L3        7588 L1(L)L2
L4      738000 MEMBRANE
L5         428 L3(L)L4
L6      145818 HYDROCHLORIDE
L7        3525 L4 AND L6

      FILE 'REGISTRY' ENTERED AT 07:22:15 ON 24 MAR 2005
               E 2-(((1-IMINOETHYL)AMINO)ETHYL)-2-METHYL-CYSTEINE/CN
L8             STRUCTURE UPLOADED
L9          10 SEARCH L8 SSS SAM
L10        166 SEARCH L8 SSS FULL

      FILE 'CAPLUS' ENTERED AT 07:30:40 ON 24 MAR 2005
L11         15 L10

=> save tmp l11 cysteines/a
'CYSTEINES/A' IS NOT VALID HERE
For an explanation, enter "HELP SAVE".

=> save temp l11 cysteines/a
ANSWER SET L11 HAS BEEN SAVED AS 'CYSTEINES/A'
```

```
=> 111 and 15
L12            0 L11 AND L5

=> 111 and 13
L13            1 L11 AND L3

=> d 113 ti fbib abs

L13    ANSWER 1 OF 1   CAPLUS   COPYRIGHT 2005 ACS on STN
TI     Exchanger for selectively removing counterions from compounds and
       compounds derived from the methods for pharmaceutical applications
AN     2004:780756  CAPLUS
DN     141:296928
TI     Exchanger for selectively removing counterions from compounds and
       compounds derived from the methods for pharmaceutical applications
IN     Moore, Christine June
PA     Pharmacia Corporation, USA
SO     PCT Int. Appl., 28 pp.
       CODEN: PIXXD2
DT     Patent
LA     English
FAN.CNT 1
       PATENT NO.          KIND    DATE      APPLICATION NO.        DATE
       -------------       ----    --------  --------------------   --------
PI     WO 2004081073       A2      20040923  WO 2004-IB529          20040223
       WO 2004081073       A3      20041111
           W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
               GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
               LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
               NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
               TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
           RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
               BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
               ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
               TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                             US 2003-453798P    P   20030311
       US 2004225150       A1      20041111  US 2004-797350         20040310
                                             US 2003-453798P    P   20030311
AB     Compds. derived such as S-[2-[(1-iminoethyl)amino]ethyl]-2-methyl-L-
       cysteine (I) zwitterion with 0-2 molar equivalents of hydrochloride are
       also disclosed.  The chloride removal process was run in batch, but it
       could easily be run in a plant setting by recirculating the I
       dihydrochloride solution over an anion exchange resin column or an anion
       exchange membrane such as Amberlite 400.  If the pH is inadvertently
       raised beyond the desired range, it may easily be adjusted back by adding
       an appropriate amount of HCl.


=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE       TOTAL
                                                ENTRY         SESSION
FULL ESTIMATED COST                             4.00          183.04

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE       TOTAL
                                                ENTRY         SESSION
CA SUBSCRIBER PRICE                            -0.73          -0.73

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:32:37 ON 24 MAR 2005

Connecting via Winsock to STN
```

Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:32:58 ON 24 MAR 2005
FILE 'CAPLUS' ENTERED AT 07:32:58 ON 24 MAR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.00	183.04

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

=> d his

        (FILE 'HOME' ENTERED AT 07:18:09 ON 24 MAR 2005)

        FILE 'CAPLUS' ENTERED AT 07:18:20 ON 24 MAR 2005
L1   643222 AMINO ACID
L2   130062 ION EXCHANGE
L3   7588 L1(L)L2
L4   738000 MEMBRANE
L5   428 L3(L)L4
L6   145818 HYDROCHLORIDE
L7   3525 L4 AND L6

     FILE 'REGISTRY' ENTERED AT 07:22:15 ON 24 MAR 2005
             E 2-(((1-IMINOETHYL)AMINO)ETHYL)-2-METHYL-CYSTEINE/CN
L8   STRUCTURE UPLOADED
L9   10 SEARCH L8 SSS SAM
L10   166 SEARCH L8 SSS FULL

     FILE 'CAPLUS' ENTERED AT 07:30:40 ON 24 MAR 2005
L11   15 L10
             SAVE TEMP L11 CYSTEINES/A
L12   0 L11 AND L5
L13   1 L11 AND L3

=> save temp all ionexsrch/l
L# LIST L1-L13 HAS BEEN SAVED AS 'IONEXSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.90	183.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:34:09 ON 24 MAR 2005

Connecting via Winsock to STN

Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:28:12 ON 24 MAR 2005
FILE 'CAPLUS' ENTERED AT 08:28:12 ON 24 MAR 2005
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.90	183.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.90	183.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:28:22 ON 24 MAR 2005